



## PATENT ABSTRACTS OF JAPAN

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**(54) TRANSMISSION GEAR**

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(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a transmission gear capable of optimally determining a gear ratio for reverse and high speed stage of fifth or sixth stage by comprising a first friction brake element and a second friction brake element selectively fixing a first shaft element and a second shaft element of a planetary gear unit.

**SOLUTION:** A transmission gear comprises a first friction brake element B1 for selectively fixing a first shaft element J1, and a second friction brake element B2 for selectively fixing a second shaft element J2. Further it comprises a third clutch element C3. Whereby the high speed no-load rotation of a pinion gear of a first planetary gear G1 in a sixth stage and the reverse can be prevented. The gear noise in the sixth stage and the reduction can be reduced, and the durability of the first planetary gear G1 can be improved.

